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> Harmsco Hurricane 90 HP Pleated Polyester Cartridge 50 Micron Filter User Manual

Harmsco HC-90-50

Harmsco Hurricane 90 HP Pleated Polyester Cartridge 50 Micron Filter

Model: HC-90-50

PRODUCT OVERVIEW

The Harmsco Hurricane 90 HP Pleated Polyester Cartridge 50 Micron Filter (Model HC-90-50) is designed for high-performance filtration in various applications. Its pleated polyester media provides excellent dirt-holding capacity and efficient removal of particles down to 50 microns, ensuring clean water or fluid output. This filter is built for durability and ease of maintenance, offering a reliable solution for your filtration needs.



Image: A Harmsco Hurricane 90 HP Pleated Polyester Cartridge Filter, featuring its cylindrical shape, pleated white filter media, and blue end caps. The filter is designed for efficient particle removal.

SETUP INSTRUCTIONS

Before installation, ensure all system components are clean and free of debris. Always wear appropriate personal protective equipment (PPE) such as gloves and eye protection.

1. **Inspect the Filter:** Carefully unpackage the filter and inspect it for any signs of damage during shipping. Do not use a damaged filter.
2. **Prepare the Housing:** Ensure the filter housing is clean and the sealing surfaces are free of any old gasket material or dirt.
3. **Install the Filter:** Carefully insert the filter cartridge into the housing, ensuring it seats properly on the bottom support. The top cap should align with the housing's sealing mechanism.
4. **Secure the Housing:** Close and secure the filter housing according to the manufacturer's instructions for the specific housing model. Ensure all clamps or bolts are tightened evenly to prevent leaks.
5. **Check for Leaks:** Slowly open the inlet valve to fill the housing. Bleed any trapped air from the system. Once full, check for any leaks around the housing seals.

OPERATING GUIDELINES

Once installed, the filter operates passively as fluid flows through the system. Monitor system pressure to determine filter performance.

- **Initial Operation:** After installation and leak check, gradually bring the system up to full operating pressure.
- **Pressure Monitoring:** Regularly monitor the pressure differential across the filter. An increase in pressure drop indicates that the filter is accumulating particles and may require cleaning or replacement.
- **Flow Rate:** Ensure the system's flow rate does not exceed the filter's maximum recommended flow rate to maintain optimal filtration efficiency and prevent premature clogging.
- **Temperature Limits:** Operate the filter within its specified temperature limits to prevent damage to the filter media or structural components.

MAINTENANCE

Regular maintenance is crucial for extending the life of your filter and ensuring consistent performance. The frequency of maintenance depends on the quality of the fluid being filtered and the volume processed.

- **Filter Cleaning:** When the pressure differential indicates clogging, remove the filter cartridge from the housing. Rinse the pleated media thoroughly with a garden hose or high-pressure sprayer to dislodge trapped particles. For stubborn deposits, a non-foaming filter cleaning solution may be used, followed by a thorough rinse.
- **Inspection:** After cleaning, inspect the filter media for tears, holes, or permanent damage. Check the end caps and gaskets for wear or cracking. Replace the filter if any damage is observed.
- **Replacement:** Even with regular cleaning, filter cartridges have a finite lifespan. Replace the filter when cleaning no longer restores adequate flow or pressure, or if the media shows signs of degradation. Replacement frequency varies based on application and usage.
- **Housing Maintenance:** Periodically clean the inside of the filter housing and inspect the O-rings or gaskets for wear. Replace worn seals to prevent leaks.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Reduced Flow / High Pressure Drop	Clogged filter media; Incorrect filter size; Air in system.	Clean or replace filter; Verify filter is correctly sized for flow; Bleed air from system.
Leaks from Housing	Improperly seated O-ring/gasket; Damaged O-ring/gasket; Loose housing.	Re-seat O-ring/gasket; Replace O-ring/gasket; Tighten housing clamps/bolts evenly.

Problem	Possible Cause	Solution
Poor Filtration Quality	Damaged filter media; Incorrect micron rating; Bypass around filter.	Replace filter; Ensure correct micron rating for application; Check for proper filter seating and housing integrity.

TECHNICAL SPECIFICATIONS

Part Number	HC-90-50
Item Weight	5.74 pounds
Package Dimensions	20.3 x 8.3 x 8.3 inches
Material	Polyester
Item Package Quantity	1
Number Of Pieces	1

WARRANTY INFORMATION

Specific warranty details for the Harmsco Hurricane 90 HP Pleated Polyester Cartridge 50 Micron Filter are typically provided by the manufacturer at the time of purchase or can be found on the official Harmsco website. Please refer to the documentation included with your purchase or visit the manufacturer's website for the most current warranty terms and conditions.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your Harmsco filter, please contact Harmsco customer support directly. Contact information can typically be found on the official Harmsco website or on your product packaging.

Harmsco Official Website: www.harmsco.com